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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/656,631	09/04/2003	Jean-Marie Gatto	CYBS5872	8128
86915	7590	02/23/2010	EXAMINER	
Young Law Firm, P.C. 4370 Alpine Road, Suite 106 Portola Valley, CA 94028			MCLELLAN, JAMES S	
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			3714	
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/656,631

**Applicant(s)**

GATTO ET AL.

**Examiner**

JAMES S. MCCLELLAN

**Art Unit**

3714

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 03 November 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-13, 15-19, 21-61, 63-92, 108 and 109 is/are pending in the application.
- 4a) Of the above claim(s) 13, 15-19, 21-61 and 66-77 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-12, 63-65, 78-92, 108 and 109 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-940)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 8/22/08, 8/23/08, 3/16/09, and 1/9/10.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(c), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(c) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/17/08 has been entered.

In this response, claims 1 and 108 have been amended. Claims 1-13, 15-19, 21-61, 63-92, 108, and 109 are pending (claims 13, 15-19, 21-61, and 66-77 were previously withdrawn).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

**Claims 1-5, 8-12, 63-65, and 108 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mockapetris “Analysis of Reliable Multicast Algorithms for Local Networks” (USC Information Sciences Institute, 1983), herein referred to as Mockapetris, in view of Nguyen (US 2004/0002385 A1).**

Regarding claims 1, 108 Mockapetris discloses an online system and method comprising a communication network, at least two central servers, each of the at least two servers being coupled to the network, at least one client terminal coupled to the at least two central servers through the communication network in a client-server configuration in which each of the at least one gaming machine is a client to the at least two central servers, each of the at least one client terminals being configured to carry out a transaction and to commit each transaction to each of the at least two central servers by sending a separate transaction packet to each of the at least two central servers, each of the separate transaction packets sent to each of the at least two central servers include an inbound payload, wherein each of the at least two central servers, upon receipt of the inbound game payload, are configured to return an outbound payload to the gaming machine having sent the transaction packet, the outbound payload enabling the client terminal having sent the transaction packet to complete the transaction.

Specifically, Mockapetris discloses a multicast algorithm for communication networks wherein redundant copies of a data packet are transmitted from a single client terminal to multiple servers (P. 150, col. 2, 1<sup>st</sup> paragraph, “a given transmission goes to all destinations”; 3<sup>rd</sup> paragraph, “Multicast queries enable multiple servers to process queries in parallel ... multicast allows for rapid update of redundant copies). Further, in the multicast system disclosed by Mockapetris, each server having received said transmission responds by returning an outbound

transmission to the gaming machine having sent the transaction packet (P. 152, Multicast Implementations, actions 2-4; including “Generation and transmission of acknowledgements from receivers to the sending host”). The acknowledgements received by the client terminal enable completion of the transaction (P. 152, Multicast Implementations, action 5; “Acknowledgement processing at the sending host”).

*Mockapetris does not disclose the implementation of the multicast system in a gaming system, wherein the client terminal is a gaming machine configured to play at least one game and to carry out a game transaction for each game played, and further that the inbound data packet is a game payload.* However, in an analogous network communication system, Nguyen discloses a client terminal, i.e. gaming machine **302**, connected to at least two central servers (host server **328**, cashless system server **144**, progressive system server **147**), wherein the gaming machine is configured to play at least one game, to carry out a game transaction for each game, and to commit each game transaction to a central server via transmission of a data packet (§ 0017, § 0019, § 0039). Further, Nguyen specifically discloses there may be more than one host server in the communications network (§ 0039). Therefore, it would have been obvious to one of ordinary skill in the art to combine the multicast data transmission system of Mockapetris with the gaming communications system of Nguyen as all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions, and the combination would have yielded predictable results.

*Mockapetris/Nguyen do not specifically disclose the at least one gaming machine is configured such that a first arriving outbound payload received by the at least one gaming*

*machine is effective to complete the game transaction, irrespective of when and if a second later arriving outbound payload is received by the at least one gaming machine.* Mockapetris discloses that acknowledgements sent from the target hosts are received and processed at the sending host (P. 152, Multicast Implementations, action 5; "Acknowledgement processing at the sending host"), and further that an acknowledgement transmission is sent from each target host to the sending host (P. 153, separate acknowledgment algorithms paragraph). P. 152, 2<sup>nd</sup> column, of Mockapetris states that "Our goal is to optimize the multicast potential of the medium without incurring excessive cost in terms of processing events in the receivers of the distribution. This goal is achieved through measures ... to rapidly discard irrelevant or duplication transmissions" (emphasis added).

Nguyen discloses receiving transmissions at a sending host, i.e. the gaming machine, from a target host, i.e. the central DCU server as described above. Nguyen further discloses that the transmissions received from the central servers may be used to complete a gaming transaction in ¶0047,0049, citing specific examples of a cashless transaction authorization. Therefore, if the multicast system of Mockapetris is combined with the gaming network for authorization of cashless transactions of Nguyen, it would have been obvious to one of ordinary skill in the art at the time of the invention to utilize only the first arriving inbound payload to complete the transaction, irrespective of when and if a second later arriving outbound payload is received by the at least one gaming machine, as it would only require a single authorization to complete the cashless gaming transaction and Mockapetris specifically discloses discarding duplication transmissions in order to avoid excessive processing costs. A second authorization message received from a second server would be redundant and unnecessary as the first

authorization message would provide sufficient authorization to complete the transaction. For instance, if a player requests funds to be transferred directly from an outside financial account directly to a gaming machine, a single authorization message received from the central server would be sufficient to process the transaction, irrespective of if and when a second authorization message is received. The second message would not be necessary, and could be disregarded by the gaming machine without an interruption of the transaction process.

Regarding claims 2 (also relevant to 80), Mockapetris discloses each of the at least two central servers returns a game transaction commit acknowledgement to the at least one gaming machine (P. 152, Multicast Implementations action 4).

Regarding claims 3 (also relevant to 81,96) *Mockapetris does not specifically disclose acknowledging to a player the validity of a game transaction upon receipt of the at least one game transaction commit acknowledgment during a predetermined timeout period.* However, Mockapetris does disclose the use of timeout periods on P. 153, 1<sup>st</sup> paragraph, wherein the system requires “restrictions on the packet lifetime”. Nguyen discloses the gaming machine is configured to acknowledge to a player a validity of the game transaction upon receipt of at least one game transaction commit acknowledgement in that the receipt of data transmitted from the server to the gaming terminal enables game play, e.g. cashless transaction authorizations (¶0049, ¶0068) thus the enabling of game play is in itself an acknowledgement to a player of the validity of the game transaction.

Regarding claims 4 ((also relevant to 82,97) Mockapetris inherently discloses that the payload includes at least one of a machine ID, a user/player ID, a transaction GUID, a machine originating/return address, a game ID, a game bet and an amount wagered. That is, the

communication system disclosed by Mockapetris includes the generation and transmission of acknowledgements from receivers to the sending host (P. 152, Multicast Implementations action 4). Therefore, the receiving server must receive a data transmission containing an originating/return address in order to transmit an acknowledgement of receipt of said data transmission to the sending host.

Regarding claims 5 (also relevant to 83,98) Nguyen discloses the at least one gaming machine is configured to be an active participant in a fault tolerance of the online gaming system. That is, Nguyen discloses the ability of the DCU to choose a data transmission path by which gaming data is sent to the central server in the event of a communication disruption, or fault (§0084-0088). Further, Nguyen discloses an embodiment of the invention wherein the DCU may be located on a gaming machine (§0091).

Regarding claims 8 (also relevant to 85,101) Nguyen discloses the communication network is the internet (§0111). *Nguyen does not specifically disclose a protocol to transport a payload of each game transaction is UDP.* However, Nguyen does disclose the ability to support multiple data transport protocols (§0103). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to utilize UDP as the protocol to transport a payload of each game transaction. Additionally, the UDP protocol is well known in the gaming art, as evidenced by Traversat et al., (US 2002/0147771 A1), in ¶ 0150.

Regarding claims 9 (also relevant to 86,102) *Nguyen does not specifically disclose the at least two central servers and the at least one gaming machine are configured to support instant-draw and deferred-draw of random events.* Nguyen does disclose that a gaming machine is configured to instantly determine a game outcome, e.g. in a slot machine embodiment the



gaming terminal is configured to randomly determine and present a game outcome to a player (§0003). However, it is notoriously well known in the art to enable a gaming machine to support instant-draw events, e.g. slot machine type events wherein a result is instantly determined and displayed to a player, and deferred-draw events, e.g. keno type events wherein there may be some lapse of time between when a player places a wager and the actual determination of a random event such as the drawing of the winning keno numbers, as evidenced by LeMay et al. (US 2004/0063495 A1). LeMay discloses a network gaming system configured to support both instant-draw and deferred-draw of random events (i.e. slot machine games and keno-type games), as shown in Fig. 16 and Fig. 17, respectively. Therefore, it would have been obvious to one of ordinary skill in the art to provide this capability to the instant invention as it is notoriously well known to do so in order to increase player gaming choices at a single gaming terminal.

Regarding claims 10 (also relevant to 87,103) Nguyen discloses a remote communications network wherein gaming terminals are linked to a remote host server (§0004), and that there may be multiple host servers (§0039). Therefore, it would have been obvious to one of ordinary skill in the art to allow the at least two central servers to be remote from one another.

Regarding claims 11,12 (also relevant to 88,89,104,105) Nguyen discloses the DCU comprises a trusted transactional cache, the trusted transactional cache being configured to process each committed game transaction received directly and independently from each of the at least one gaming machine, and to provide real time persistent storage and logging of aspects of each committed game transaction (§0045, §0077, §0079).

Regarding claims 63 (also relevant to 90,106) Nguyen discloses the gaming terminal is configured to initiate and terminate the game transaction (§0003), wherein a player may begin play by placing a wager or terminal play by cashing out, as is the standard operating method of slot machine gaming devices.

Regarding claim 64 (also relevant to 91,107) Nguyen discloses the at least one gaming machine is configured as sole master of the game transaction as, as shown in Fig. 1, the master gaming controller **108** is located within the gaming machine **102**, wherein “the master gaming controller **108** typically controls the game play on the gaming machine **102**” (§0012).

Regarding claims 65,71 (also relevant to 92) Nguyen discloses an embodiment of the online gaming system wherein only the at least one gaming machine is configured for recovery from network communication errors occurring during the game transaction. That is, Nguyen discloses an embodiment of the system wherein the DCU mitigates transaction errors (§0023) and the DCU is located on a gaming machine (§0091).

**Claims 6, 7, 78-92, and 109 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mockapetris in view of Nguyen as applied to claims 1 (for claims 6 and 7)above, and further in view of U.S. Patent No. 5,956,489 to San Andres.**

The combination of Mockapetris and Nguyen disclose all of the limitations as set forth above but fail to expressly disclose synchronizing between the servers.

San Andres teaches the use of a multiple servers and synchronizing between the servers (see paragraphs bridging columns 2-3).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Mockapetris with synchronized servers as taught by San Andres in order to bring each server up to date and not unnecessarily consume processing resources.

### *Response to Arguments*

Applicant's arguments filed 7/19/08 have been fully considered but they are not persuasive.

On page 27 (continued through page 29), Applicant argues that Mockapetris fails to disclose sending "a separate transaction packet to each of the at least two central servers," as recited in claim 1 (similarly in claim 108). The Examiner respectfully disagrees. While Mockapetris may disclose sending more than one transaction packet to each of the servers, Mockapetris does not fail to disclose sending one transaction packet. That is, claim 1 is not limited to sending one and only one transaction packet to the central servers. For at least this reason, the rejection of claim 1 is maintained.

On page 29 (continued on page 30), Applicant argues that Mockapetris fails to disclose that the "first-of-many arriving acknowledgments has any special significance or is effective to complete a transaction, as claimed." The Examiner respectfully disagrees. Applicant asserts that Mockapetris states that "each ACK signal is equally important, as each must be received by the sending host so the sending hosts will know that each of the target host to which it has just broadcast (the duplicate transmission) has well received the transmission" (underlined in the original). However, Applicant failed to cite to a particular passage in Mockapetris to support his assertion. In opposition to Applicant's assertion, Mockapetris notes on page 152, column 2, that

an important goal of his system is to "optimize the multicast potential of the medium without incurring excessive cost in terms of processing events in the receives of the distribution." With that goal explicit, a single acknowledgement would be sufficient to complete a transaction.

Arguments on page 30 (continued through page 36) related to independent claims 79 and 109 are moot in view of new grounds of rejection.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES S. MCCLELLAN whose telephone number is (571)272-7167. The examiner can normally be reached on Mon-Fri (8:30AM-5:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dmitry Suhol can be reached on (571) 272-4430. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JAMES S. MCCLELLAN/  
Primary Examiner, Art Unit 3714